#### **Purpose of Chapter 6**

The information presented in this chapter highlights some of the more significant environmentally sensitive areas within the GRP region that could be impacted as a result of an oil spill. Consistent with the overall purpose of the GRP's, this information is only intended to provide a level of detail required during the initial phase of spill response. During an actual event, additional resource information will be available from the resource trustee agencies supporting the Environmental Unit in the Planning Section. Specific resource concerns for areas that already have designated protection strategies in Chapter 4 of the GRP may be found in the "Resources Protected" column in the matrix describing the individual strategies.

The information provided in Chapter 6 is intended for use in:

- o Preparing an initial ICS 232 form (Resources-at-Risk summary) for Incident Command
- o Identifying those sites where it may be necessary to implement Flight Restriction Zones in order to prevent disturbance/injury to sensitive wildlife species.
- o Identifying sensitive shoreline habitats to assist SCAT teams in their initial assessments and to help personnel in the Environmental Unit in developing appropriate cleanup strategies.

Chapter 6 consists of two sets of maps and tables - one for wildlife and the other for fish, shellfish and selected sensitive marine habitats. These data are presented separately, both for ease of reading and because each of the two data sets has slightly different applications within the context of spill response.

The wildlife maps and tables present information on the location and seasonal sensitivity of key wildlife resources. Types of data included here are concentration areas for waterfowl, marine birds and shorebirds; seabird colonies; nesting areas for sensitive species such as eagles, herons and falcons; and marine mammal haulout sites. This information is intended for the rapid identification of areas where significant wildlife oiling impacts could be anticipated and to denote areas where flight restriction zones may be required to protect sensitive wildlife. Each site depicted on these maps is identified by a unique number in order to facilitate the process of communicating Flight Restriction Zone recommendations to the Operations Section in ICS. The tables accompanying the wildlife maps present information on the season(s) during which sites may be particularly sensitive to disturbance.

The fish/shellfish/marine habitat maps present general information on the location of baitfish spawning beaches, herring spawning areas, streams used by anadromous salmonids, hardshell clam concentrations, and kelp and eelgrass beds. This information will be most useful to personnel involved in assessing initial risks to fish and shellfish resources and to those conducting initial beach reconnaissance, pending availability of more detailed resource information and the formation of SCAT teams.

Because the operational uses of this information differ from those of the wildlife data, individual site identification numbers have not been assigned. Tables associated with these maps will identify the seasonal sensitivity of each resource. In addition, notes accompanying each table will provide information on the general distribution and seasonal sensitivity of those resources that are not mapped but may occur anywhere in the GRP region (ex. juvenile salmonids in shallow nearshore waters).

- 6. Sensitive Resource Description \*
  - 6.1. Marine Mammals
  - 6.2. Birds

#### 6.3. Flight Restriction Zones

Flight restriction zones have been designated in the GRP to minimize disturbance to certain wildlife species. An identified location could represent a marine mammal haulout site, a seabird or heron colony, or the individual nest of a sensitive species such as bald eagle. While some zones may be restricted year around, others will be in effect only during the months listed in the matrix.

The no-fly bubble is the area within a 1,500 foot radius and below 1,000 feet in altitude around the location.

All aircraft, including those from the government, contractors or media, are expected to avoid these zones when restrictions are in effect. In the event that one of these zones must be entered during a spill response, clearance must be obtained from the Washington Department of Fish and Wildlife (WDF&W) and the United States Fish and Wildlife Service (USFWS), or when marine mammals other than sea otters are concerned, the National Marine Fisheries Service (NMFS). Sea otters are managed by the United States Fish and Wildlife Service.

During oil spills, pilots are also asked to avoid disturbing any large concentrations of birds and other wildlife. By keeping a safe distance or altitude, pilots can prevent the accidental hazing of unaffected wildlife into oiled areas and minimize the risk of aircraft/ bird collisions.

#### 6.4. Hazing

Hazing or directed harassment, is a method used to drive or herd wildlife out of an area where they are at risk of becoming oiled. Hazing techniques include the use of visual and audio devices, personnel for herding, vessels and aircraft. In the right circumstances it can be an effective tool for protecting some wildlife species. In other cases it can be disastrous as unaffected wildlife can be driven into oiled areas, or forced to abandon nests or young.

National Marine Fisheries Service staff or their designees will perform all hazing of marine mammals other than sea otters. Before hazing can begin for all other species of wildlife, clearance must be obtained from the Washington Department of Fisheries and Wildlife and the United States Fish and Wildlife Service. All hazing efforts during a spill will be directed by these agencies. The deliberate harassment of wildlife without first securing permission from these agencies is a violation of Federal and State laws.

The following information must be provided for a determination on whether hazing might be authorized in a given situation.

<sup>\*</sup> Generated for the GRP by the Spill Response and Resource Protection Team of the Washington Department of Fish and Wildlife

- 1. Description of the situation where hazing authorization is being sought
- 2. Location to be hazed
- 3. Species of wildlife to be hazed and number of animals
- 4. Methods and equipment used
- 5. Date and time of hazing
- 6. Name, phone number, radio frequency, pager number and the amount of hazing experience of the individual requesting permission

The responsible agencies will evaluate each request on a case by case basis. All hazing of marine mammals, threatened and endangered species, and all hazing by aircraft will be performed only under authority and general supervision of WDF&W, USFWS, NMFS or persons designated by these agencies. Representatives of these agencies can be contacted through the planning section of the Unified Command System during the spill event.

		POR	T TO	WNSEN	D FLIGHT F	RESTRICTION	ON ZONES	S/SENS	ITI	VE	WI	LDI	LIF	E /	and the same	• *			
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Map Page1	18441										PE	RIO	D C	)FS	EN	rizi	IVI	TY	
		Seabird	Seabird	Waterfowl	Marine Mammal	Sensitive	Shorebird	Flight	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct Nov	/ Dec
Code	Location	Colony	Conc	Conc	Haulout	nesting species	concentration	Restriction											
WAI-9	Port Townsend		Yes	Yes				No											
WAI-10	Marrowstone Pt.					Yes		Yes											
WAI-10A	Kilisut Hrbr Spit				Yes			No											
WAI-11	Glen Cove					Yes		Yes											
WAI-12	Kilisut Harbor			Yes	Yes	Yes		Yes											
WAI-14	Kala Point			Yes				Yes											
	Hadlock			Yes				Yes											

Flights below 1000 feet require clearance: See appendix on Flight Restriction Zones

# HOOD CANAL / ADMIRALTY INLET GRP FLIGHT RESTRICTION ZONES FOR SENSITIVE WILDLIFE SPECIES 1. Pilots refer to the chapter on Flight Restriction Zones. 2. All ground entry within 100 yards of sensitive nesting species is restricted. 3. All boaters are requested to approach no closer than 100 yards to seal and waterfowl concentrations. PARK OR PUBLIC LAND RESERVATION BIRD CONCENTRATION AREA TOWN OR CITY POINT WILSON McCURDY POINT RORT TOWNSEND HASTINGS STREET WAI-10 WAI-10A WAI-12 WAI-11 HIGHWAY 20 WAI-14 WAI-15

PORT TOWNSEND

**BOAT LAUNCH** 

PROTECTION SEAND

MARINE MAMMAL HAULOUT

SENSITIVE SPECIES NESTING

**DISCOVERY BAY** 

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JEFFERSON COUNTY

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Map Pagel	18441									PE	ERIC	DD (	OF SE	ENSI	TIV	ITY	
1 0		Seabird	Seabird	Waterfowl	Marine Mammal	Sensitive	Shorebird	Flight	Jan Fe	b Mar	Apr	May	Jun Ju	l Aug	Sep	Oct	Nov Dec
Code	Location	Colony	Conc	Conc	Haulout	nesting species	concentration	Exclusion						-			
WAI-1	Crockett Lake	<b> </b>		Yes			Yes	Yes									
WAI-2	Lake Hancock Wtlds			Yes	-			No									
WAI-3	Lagoon Point	1		Yes				No									
WAI-4	Bush Point	1				Yes		Yes									
WAI-10	Marrowstone Point					Yes		Yes			.,						
	Kilisut Harbor Spit				Yes			No						Section 1			name Car
WAI-12	Kilisut Harbor			Yes	Yes	Yes		Yes	1	ं							
WAI-13	Nodule Point					Yes		Yes		1	.,			,,,			
WAI-13A	E. Marrowstone I.				Yes			No							***		
WAI-16	Upper Oak Bay		Yes	Yes				No		Sex and the							
WAI-17	Kinney Point					Yes		Yes									
WAI-18	Olele Point					Yes		Yes		¥.		_					
WNC-10	Baby Island				Yes			Yes									
WNC-11	Freeland					Yes		Yes	1								
	North Bluff	<b>†</b>	1			Yes		Yes									

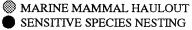
Flights below 1000 feet require clearance: See appendix on Flight Restriction Zones

#### MARROWSTONE ISLAND

#### HOOD CANAL / ADMIRALTY INLET GRP

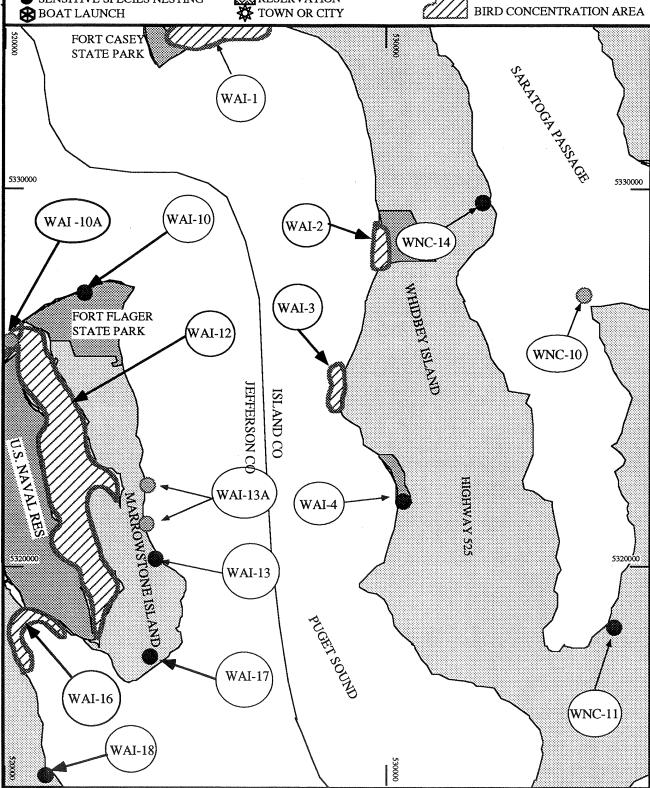
#### FLIGHT RESTRICTION ZONES FOR SENSITIVE WILDLIFE SPECIES

- 1. Pilots refer to the chapter on Flight Restriction Zones.
- 2. All ground entry within 100 yards of sensitive nesting species is restricted.
- 3. All boaters are requested to approach no closer than 100 yards to seal and waterfowl concentrations.



PARK OR PUBLIC LAND RESERVATION TOWN OR CITY





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		Seabird	Seabird	Waterfowl	Marine Mammal	Sensitive	Shorebird	Flight	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct 1	Nov	Dec
Code	Location	Colony	Conc	Conc	Haulout	nesting species	concentration	Restriction				ļ			_					
WAI-5	Double Bluff	<del>                                     </del>		<u> </u>		Yes		Yes												
WAI-6	Deer Lagoon			Yes		Yes	Yes	Yes												
WAI-18	Olele Point					Yes		Yes												
WAI-19	Klas Point				Yes	-		Yes												
WAI-20	Clovos Rocks				Yes			Yes												
WAI-20A	Tala Point				Yes			No								and the			Section Section 1	
WAI-21	Mouth of Hood Canal		Yes					No		dis.			erio Eriola, es							
WAI-22	Skunk Bay					Yes		Yes												
WAI-23	Point No Point					Yes		Yes											$\Box$	
WAI-23A	Pilot Point					Yes		Yes	Π											
WAI-24	Coon Bay Area					Yes		Yes	Γ		.64									
WAI-24A	Coon Bay area			Yes				No												
WAI-25	Point Hannon				·	Yes		Yes												
WAI-25A	Hood Head					Yes		Yes												
WAI-26	Port Gamble	ļ	Yes	ļ		Yes		Yes												
WAI-26A	Teekalet Bluff					Yes		Yes												
WAI-26B	Port Gamble					Yes	***	Yes	<u> </u>											
WAI-26C	Port Gamble	ļ				Yes		Yes												
WAI-26D	Port Gamble					Yes		Yes												
WAI-26E	Port Gamble				Yes			Yes												
WAI-27	Apple Cove Point					Yes		Yes											T	

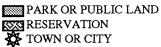
Flights below 1000 feet require clearance: See appendix on Flight Restriction Zones

#### **PORT GAMBLE**

#### HOOD CANAL / ADMIRALTY INLET GRP

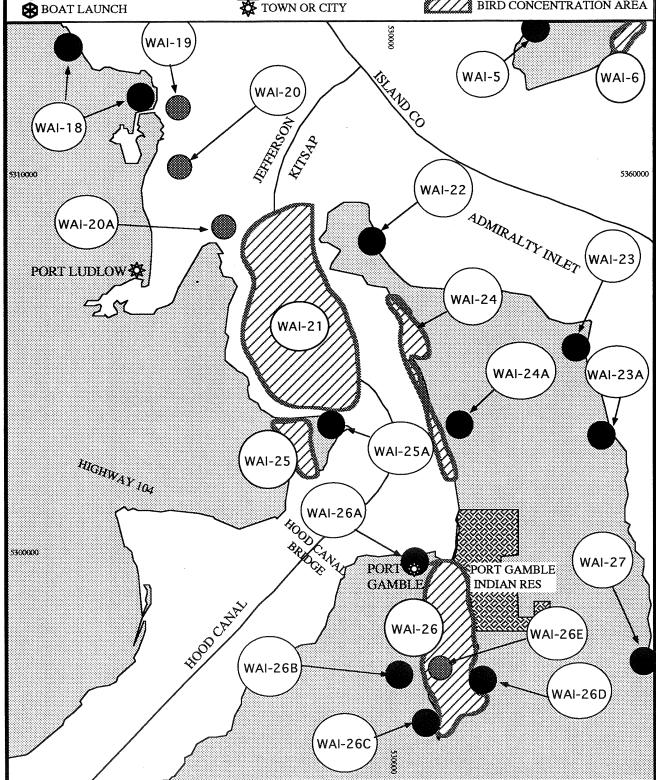
#### FLIGHT RESTRICTION ZONES FOR SENSITIVE WILDLIFE SPECIES

- 1. Pilots refer to the chapter on Flight Restriction Zones.
- 2. All ground entry within 100 yards of sensitive nesting species is restricted.
- 3. All boaters are requested to approach no closer than 100 yards to seal and waterfowl concentrations.
  - MARINE MAMMAL HAULOUT
  - SENSITIVE SPECIES NESTING





BIRD CONCENTRATION AREA



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Map Page	18441	Seabird	Seabird	Waterfowl	Marine Mammal	Sensitivo	Shorebird	Flight												
Code	Location	Colony	Conc	Conc	Haulout	nesting species	concentration	Exclusion	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Do
WAI-6	Deer Lagoon	<del> </del>		Yes		Yes	Yes	Yes									J			
	Cultus Lake			Yes	-	Yes	Yes	Yes											* p* p * 22	
	Possession Point		Yes					No												
	Possession Point					Yes		Yes				de la como		dan en			,			
WNC-2	Picnic Point			•		Yes		Yes									<u> </u>		<u> </u>	_
WNC-3	Possession Point S.					Yes		Yes										1	<u> </u>	丄
WNC-4	Possession Point N.					Yes		Yes										<del> </del>	<del>  </del>	1
WNC-5	Glendale					Yes		Yes												$\perp$
WNC-34	Mukilteo "Rip"		Yes					No							L_					
WNC-35	Possession Pt. "Rip"		Yes					No								14.				

Flights below 1000 feet require clearance: See appendix on Flight Restriction Zones

## HOOD CANAL / ADMIRALTY INLET GRP FLIGHT RESTRICTION ZONES FOR SENSITIVE WILDLIFE SPECIES 1. Pilots refer to the chapter on Flight Restriction Zones. 2. All ground entry within 100 yards of sensitive nesting species is restricted. 3. All boaters are requested to approach no closer than 100 yards to seal and waterfowl concentrations. PARK OR PUBLIC LAND **MARINE MAMMAL HAULOUT** RESERVATION SENSITIVE SPECIES NESTING BIRD CONCENTRATION AREA TOWN OR CITY 550000 5320000 WHIDBEY ISLAND WNC-34 WNC-5 5310000 MUKILTEO WNC-3 WNC-

MUKILTEO

5320000

**₿** BOAT LAUNCH

WAI-6

WAI-7

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WNC-35

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May	T	Seabird	Seabird	Waterfowl	Marine Mammal	Sensitive	Shorebird	Flight	Jan	Feb	 		 Jul Au			 De
Code	Location	Colony	Conc	Conc	Haulout	nesting species	concentration	Restriction			 			1		 <u> </u>
WHC-1	South Pt.					Yes		Yes		÷				+-	+	
WHC-2	Thorndyke Bay			Yes	*	Yes		Yes								
WHC-3	Brown Pt.					Yes		Yes								ī
WHC-4	Dabob Bay, Long Spit				Yes			No				A COLUMN				ī
WHC-5	Dabob Bay					Yes		Yes						1		Ī
WHC-6	Dabob Bay					Yes		Yes								Γ
WHC-7	Dabob Bay, Broad Spit				Yes			No		380.77	7			1_		Γ
WHC-8						Yes		Yes								<u> </u>
WHC-9						Yes		Yes			 7					
WHC-10	Tabook Pt.					Yes		No		334						
<del></del>	Quikene Bay					Yes		Yes								I
	Quikene Bay		ļ			Yes		Yes								
	3 Quikene Bay				Yes		<u> </u>	Yes								
	Quilcene Bay	<u> </u>			Yes			Yes								
WHC-15	Quikene Bay			Yes				Yes								

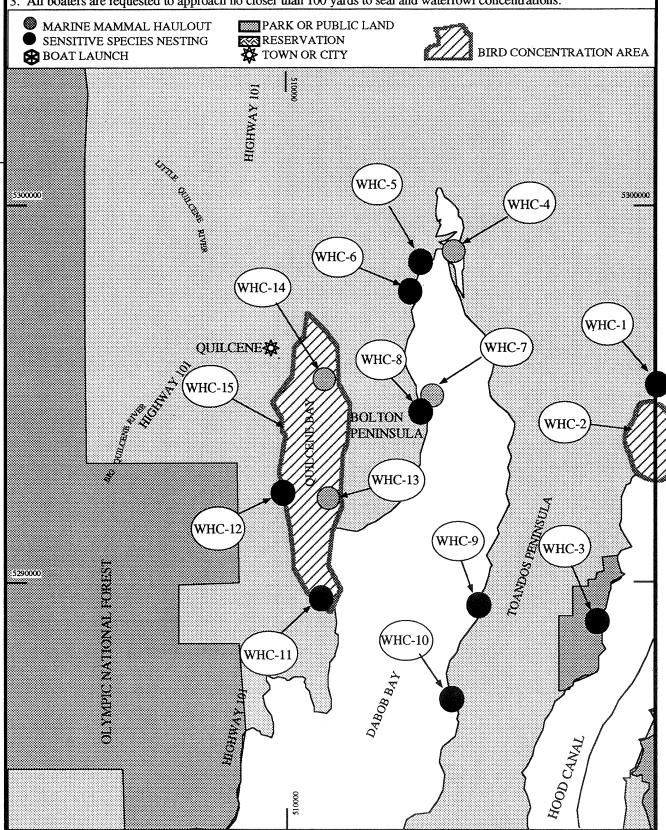
Flights below 1000 feet require clearance: See appendix on Flight Restriction Zones

#### HOOD CANAL / ADMIRAL TY INLET GRP

#### **QUILCENE**

#### FLIGHT RESTRICTION ZONES FOR SENSITIVE WILDLIFE SPECIES

- 1. Pilots refer to the chapter on Flight Restriction Zones.
- 2. All ground entry within 100 yards of sensitive nesting species is restricted.
- 3. All boaters are requested to approach no closer than 100 yards to seal and waterfowl concentrations.



6-13

		RI.A	CK PO	OINT FI	IGHT REST	RICTION Z	ONES / SE	NSITIV	ΕV	VIL	DLI	FE								
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		Seabird	Seabird	Waterfowl	Marine Mammal	Sensitive	Shorebird	Flight	Jan	Peb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	Location	Colony	Conc	Conc	Haulout	nesting species	concentration	Exclusion												
			ļ					<del>                                     </del>					<u> </u>	1						
	Dosewallips Rvr Delta		ļ		Yes		<u> </u>	Yes												
WHC-17	Dosewallips Rvr Delta		Yes	Yes	<u> </u>	Yes	Yes	Yes												
WHC-18	Duckabush Rvr Delta				Yes			Yes												
WHC-19	Duckabush Rvr Delta			Yes		Yes		Yes												
WHC-20	Big Beef Harbor					Yes		No												1 1 1 1 1 1
WHC-21	Big Beef Harbor						Yes	No												
WHC-22						Yes		Yes	l				ž.							

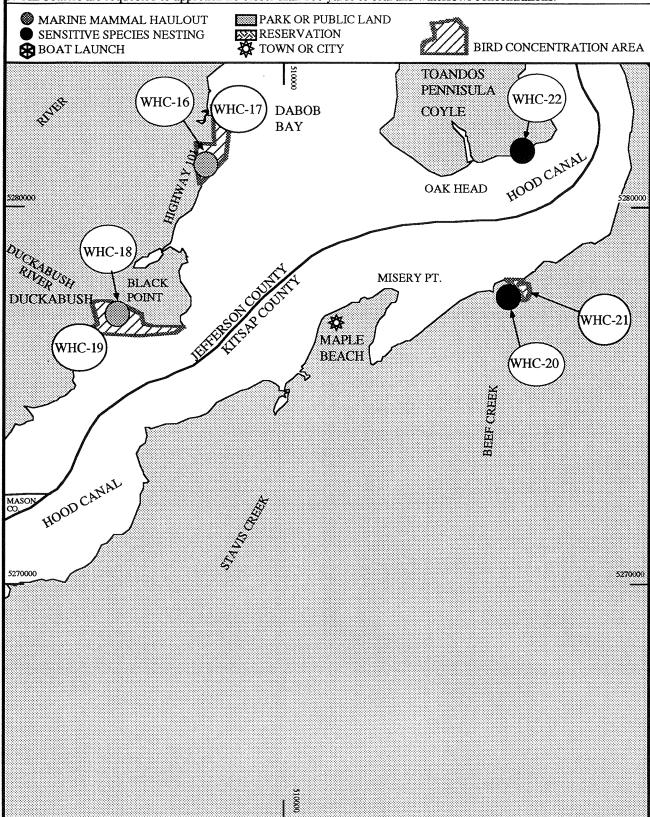
Flights below 1000 feet require clearance: See appendix on Flight Restriction Zones

# HOOD CANAL/ADMIRALTY INLET GRP BIRD CONCENTRATION AREA **TOANDOS PENNISULA** WHC-22 COYLE HOOD CANAL OAK HEAD 5280000 MISERY PT. WHC-2 MAPLE BEACH WHC-20 5270000



#### FLIGHT RESTRICTION ZONES FOR SENSITIVE WILDLIFE SPECIES

- 1. Pilots refer to the chapter on Flight Restriction Zones.
- 2. All ground entry within 100 yards of sensitive nesting species is restricted.
- 3. All boaters are requested to approach no closer than 100 yards to seal and waterfowl concentrations.



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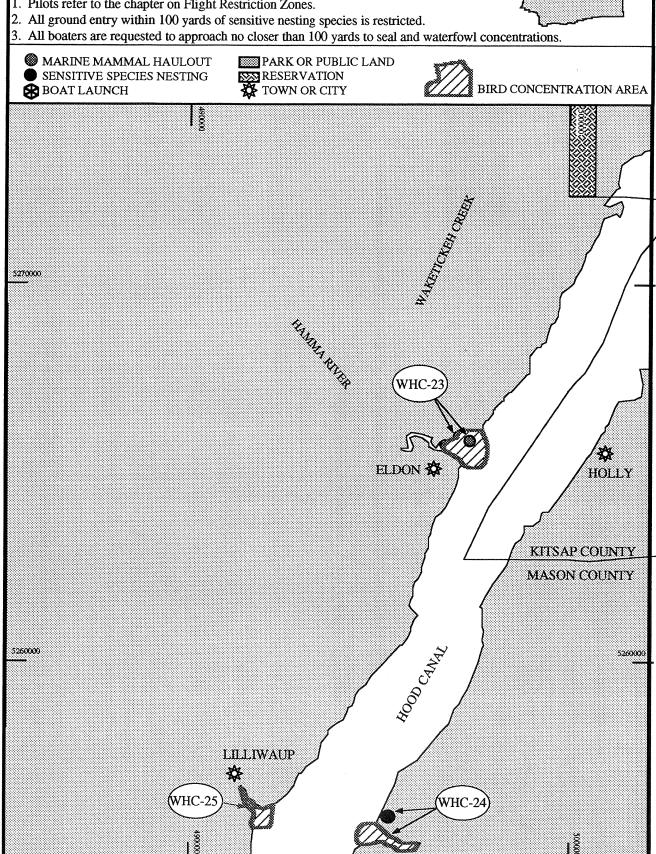
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Map Page	18448	ļ							<u> </u>	I= .			DD (						
		Scabird	Scabird	Waterfowl	Marine Mammal	Sensitive	Shorebird	Flight		Feb	Mar	Apr	May	Jun	Jul A	lug	Sep	Oct N	ov De
Code	Location	Colony	Conc	Conc	Haulout	nesting species	concentration	Exclusion			<u> </u>		<u> </u>	-					-
	Hamma Hamma																		
WHC-23	River Delta			Yes	Yes	Yes		Yes											
WHC-24	Dewatto Bay					Yes	Yes	Yes											
WHC-25	Lilliwaup Bay			Yes			Yes	No											

Flights below 1000 feet require clearance: See appendix on Flight Restriction Zones

# HOOD CANAL/ADMIRALTY INLET GRP **BIRD CONCENTRATION AREA** ELDON 🌣 HOLLY KITSAP COUNTY MASON COUNTY 5260000

#### ELDON FLIGHT RESTRICTION ZONES FOR SENSITIVE WILDLIFE SPECIES

1. Pilots refer to the chapter on Flight Restriction Zones.



Map Page	18448							***************************************		Flig						try F NSI				s *
		Seabird	Seabird	Waterfowl	Marine Mammal	Sensitive	Shorebird	Flight	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	Location	Colony	Conc	Conc	Haulout	nesting species	concentration	Exclusion												
WHC-26	Skokomish River Delta			Yes	Yes	Yes	Yes	Yes												
	Hood Canal - Anna's Bay to								(184) (3) (4) (4)											
WHC-27	Lynch Cove		Yes	Yes			Yes	No												

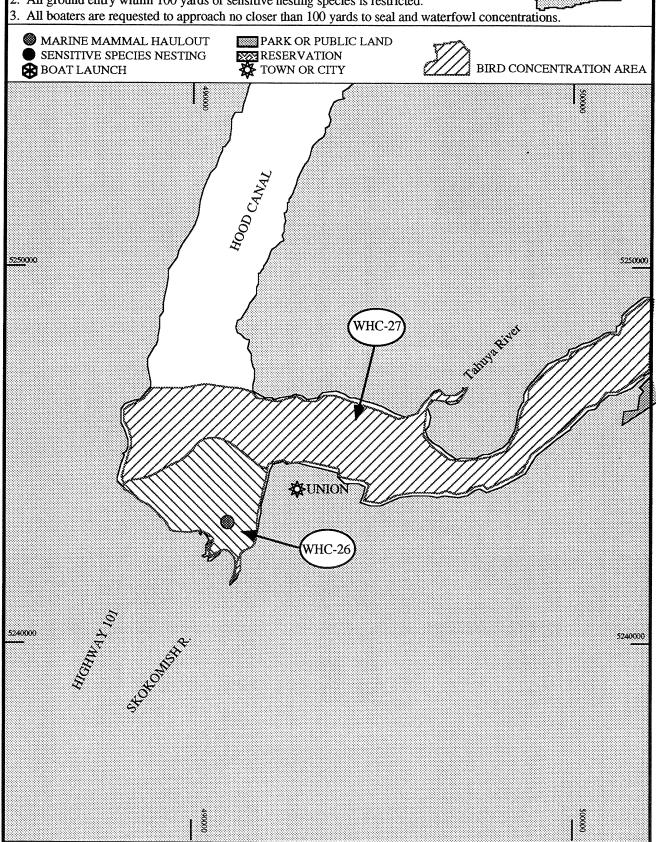
Flights below 1000 feet require clearance: See appendix on Flight Restriction Zones

#### HOOD CANAL/ADMIRALTY INLET GRP

#### UNION

#### FLIGHT RESTRICTION ZONES FOR SENSITIVE WILDLIFE SPECIES

- 1. Pilots refer to the chapter on Flight Restriction Zones.
- 2. All ground entry within 100 yards of sensitive nesting species is restricted.



February 1, 1995

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Map Page	18448	Seabird	Seabird	Waterfowl	Marine Mammal	Sensitive	Shorebird	Flight	Ian	Feh	Mar	Anr	May	Inn	Int	Ang	Sen	Oct	Nov	Dec
Code	Location	Colony	Conc	Conc	Haulout	nesting species	concentration	Exclusion	7		IVACA		Aviay	7411			JOP		1101	<u></u>
WSP-24	Case Inlet		Yes					No	5.48v2		Swid-birdsoft.									odije socije
	Hood Canal - Anna's Bay to							~												
WHC-27	Lynch Cove		Yes	Yes			Yes	No												
WHC-28	Lynch Cove		1 03	Yes		Yes	108	No												

Flights below 1000 feet require clearance: See appendix on Flight Restriction Zones

### HOOD CANAL/ADMIRALTY INLET GRP BELFAIR FLIGHT RESTRICTION ZONES FOR SENSITIVE WILDLIFE SPECIES 1. Pilots refer to the chapter on Flight Restriction Zones. 2. All ground entry within 100 yards of sensitive nesting species is restricted. 3. All boaters are requested to approach no closer than 100 yards to seal and waterfowl concentrations. MARINE MAMMAL HAULOUT PARK OR PUBLIC LAND SENSITIVE SPECIES NESTING RESERVATION **BOAT LAUNCH** TOWN OR CITY BIRD CONCENTRATION AREA KITSAP COUNTY 5260000 5260000 UNION RIVER 🌣 BELFAIR HCHWAY 300 KITSAP COUNTY 5250000 PIERCE COUNTY ALLYN WSP-24 WHC-27 HIGHWAY 106 HIGHWAY 302 510000